

ExtractQuantisationError

Contents

ExtractQuantisationError is supplied as a zip file, extractquantisationerror.zip. When unzipped it should contain:

ExtractQuantisationError.exe
CT_Pro.dll

and this information file.

Description

ExtractQuantisationError processes a mono 24-bit packed integer or 32-bit integer Wave file to extract and amplify the quantisation error that would result from truncating the file, without added dither, to 16-bit resolution.

System requirements

ExtractQuantisationError should run under any Windows 32-bit operating system, from Windows 95 onwards. It has been tested on Windows XP Pro.

To run, ExtractQuantisationError requires that the supplied CT_Pro.dll be installed in the same directory as the executable. This contains the runtime files of Perfect Sync Inc's Console Tools Pro (<http://perfectsync.com>) which provides enhanced control over the console window's appearance and function.

Operation

ExtractQuantisationError first asks you to specify the file to be processed. This must be a mono Wave file containing 24-bit packed integer or 32-bit integer data. If these requirements are not met or the specified file does not exist, an error message is generated. Otherwise the file's key parameters are displayed.

ExtractQuantisationError then asks for the name of the output file before beginning to process the input file. In each case the filename must comprise a complete path, including the .wav extension (eg c:\audio\guitar left.wav). As processing proceeds, ExtractQuantisationError reports reading the input file, generating the output values and writing the output file. The output file is a 16-bit Wave file in which the quantisation error can have a maximum peak amplitude of -6.2dBFS.

If the quantisation error sounds like smooth, glitch-free white noise throughout, this suggests that the input file can be converted to 16-bit resolution using no dither in the requantisation, without this introducing audible distortion.

Licence

This software may be freely distributed provided that it is unaltered and distributed in its entirety, including the supplied DLL and this information file. No support or warranty is implied or given; you use this software at your own risk. If you encounter any bugs or have suggestions for improvements you are invited to post them via www.audiosignal.co.uk.

Keith Howard
January 2005